

6CA5

Beam Power Tube

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 6.3 volts
Current 1.2 amp

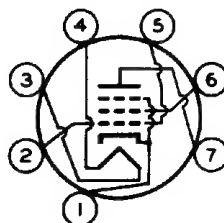
Direct Interelectrode Capacitances (Approx.):^a

Grid No.1 to plate. 0.5 μ f
Grid No.1 to cathode & grid No.3,
grid No.2, and heater 15 μ f
Plate to cathode & grid No.3,
grid No.2, and heater 9 μ f

Mechanical:

Operating Position. Any
Maximum Overall Length. 2-5/8"
Maximum Seated Length. 2-3/8"
Length, Base Seat to Bulb Top (Excluding tip). . . . 2" \pm 3/32"
Diameter. 0.650" to 0.750"
Dimensional Outline See *General Section*
Bulb. T5-1/2
Base. Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW. 7CV

Pin 1 - Cathode,
Grid No.3
Pin 2 - Grid No.1
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Grid No.1
Pin 6 - Grid No.2
Pin 7 - Plate

AMPLIFIER — Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 130 max. volts
GRID-No.2 (SCREEN-GRID) VOLTAGE 130 max. volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive-bias value 0 max. volts
GRID-No.2 INPUT 1.4 max. watts
PLATE DISSIPATION 5 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode . . 200 max. volts
Heater positive with respect to cathode . . 200^b max. volts
BULB TEMPERATURE (At hottest point
on bulb surface). 180 max. °C

Typical Operation and Characteristics:

Plate Voltage 110 125 volts
Grid-No.2 Voltage 110 125 volts



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
7-61

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Grid-No.1 Voltage	-4	-4.5	volts
Peak AF Grid-No.1 Voltage	4	4.5	volts
Zero-Signal Plate Current	32	37	ma
Max.-Signal Plate Current	31	36	ma
Zero-Signal Grid-No.2 Current	3.5	4	ma
Max.-Signal Grid-No.2 Current	7.5	11	ma
Plate Resistance (Approx.)	16000	15000	ohms
Transconductance	8100	9200	μ mhos
Load Resistance	3500	4500	ohms
Total Harmonic Distortion	5	6	%
Max.-Signal Power Output	1.1	1.5	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1 max.	megohm
For cathode-bias operation	0.5 max.	megohm

^a Without external shield.

^b The dc component must not exceed 100 volts.

